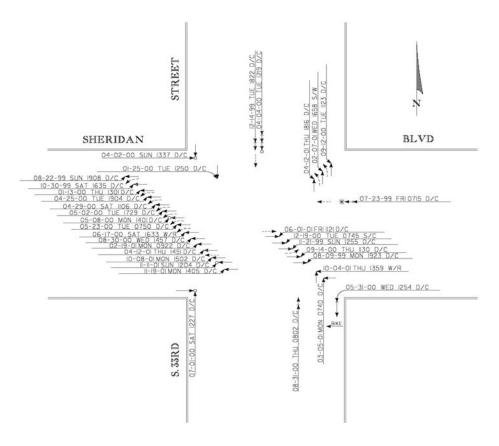
# 5.4 33rd Street and Sheridan Boulevard

**BEFORE** 

**ADT:** 16,700 veh/day (1999) **Time Period:** 7/1/99-12/31/01

Traffic Control: Actuated Coordinated Signal Crash Pattern: All Left Turns



Total Crashes in Before Period: 33



33rd Street and Sheridan Boulevard - Southbound Approach (Before)

## 5.4 33rd Street and Sheridan Boulevard

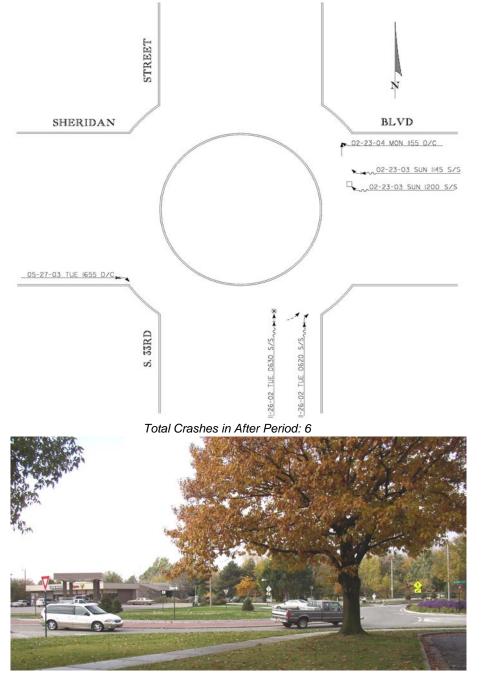
**AFTER** 

Countermeasures: Removed Traffic Signals and Time Period: 7/1/02-12/31/04

Constructed Roundabout

ImprovementJuly 1, 2002Speed Limits:NS Arterial- 35 mph

**Completion Date:** EW Arterial- 35 mph



33rd Street and Sheridan Boulevard - Southwestbound Approach (After)

#### 5.4 33rd Street and Sheridan Boulevard

# **COMPARISON**

Countermeasures: Removed Traffic Signals and Constructed Roundabout

**Improvement Completion Date:** July 1, 2002

	Before	After	Change
	7/1/99-12/31/01	7/1/02-12/31/04	-
Analysis Period			
Primary Crash Benefit			
Total Number of Correctable Crashes	28	1	-96%
All Other Intersection Crashes	5	5	0%
Intersection Crash Experience			
Injury + Fatal Crashes	5	0	-100%
Property Damage-Only Crashes	27	5	-81%
Non-Reportable Crashes	1	1	0%
Total Number of Intersection Crashes	33	6	-82%
Total Intersection Benefit			
Crash Rate	2.21	0.42	-81%
EPDO Rate	4.92	0.36	-93%
EPDO Number*	73.4	5	-68.40

Cost of Property Damage Crash: \$ 6,500
Total Benefit (12 months): \$ 444,600
Equivalent Uniform Annual Benefit \$ 569,990
(EUAB):

## **Total Cost of Improvements:**

Equivalent Uniform Annual Cost (EUAC): \$ 52,760 Initial Cost: \$ 605,142

**Benefit-Cost Ratio:**  $\frac{$569,990}{$52,760} = 10.8$ 

**Net Benefit (Present Worth):** \$ 569,990 - \$52,760 = \$517,230

\*Change Statistically Significant at 95% Confidence Interval

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